
Guidance for Industry

Bar Code Label Requirements

Questions and Answers

DRAFT GUIDANCE

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**U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)**

**June 2005
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**U.S. Department of Health and Human Services
Food and Drug Administration
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Guidance for Industry¹

Bar Code Label Requirements — Questions and Answers

This draft guidance, when finalized, will represent the Food and Drug Administration's (FDA's) current thinking on this topic. It does not create or confer any rights for or on any person and does not operate to bind FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. If you want to discuss an alternative approach, contact the FDA staff responsible for implementing this guidance. If you cannot identify the appropriate FDA staff, call the appropriate number listed on the title page of this guidance.

I. INTRODUCTION

FDA regulations require that certain human drug and biological product labels contain a bar code consisting of, at a minimum, the National Drug Code (NDC) number (21 CFR 201.25). This guidance provides questions and answers relating to how the bar code label requirements apply to specific products or circumstances. The questions are based on those posed to the Agency since the final rule published in February 2004.

FDA's guidance documents, including this guidance, do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

II. BACKGROUND

In the *Federal Register* of February 26, 2004 (69 FR 9120), we published a final rule requiring certain human drug and biological products to have on their labels a linear bar code that contains, at a minimum, the drug's NDC number (21 CFR 201.25). The rule also requires the use of machine-readable information on blood and blood component labels (21 CFR 606.121(c)(13)).² Bar codes will allow health care professionals to use bar code scanning equipment to verify that

¹ This guidance has been prepared by the Office of Regulatory Policy in the Center for Drug Evaluation and Research (CDER) at the Food and Drug Administration, in conjunction with the Agency's Bar-Code Working Group.

² Section 606.121 requires the container label of a blood or blood component to bear encoded information in a machine-readable format and approved for use by the Director, CBER. The questions and answers in this guidance focus on bar codes, not machine-readable labels on blood and blood components, because the questions we received focused on bar codes. The Agency may revise this guidance as we receive additional questions.

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the right drug (in the right dose and right route of administration) is being given to the right patient at the right time. This new system is intended to help reduce the number of medication errors that occur in hospitals and health care settings.

III. QUESTIONS AND ANSWERS

WHO IS SUBJECT TO THE BAR CODE RULE?

Q1: Is a firm subject to the bar code rule if it sells its drugs to distributors, and the distributor then sells it to others (including hospitals)?

A1: Yes. Under § 201.25, manufacturers, repackers, relabelers, and private label distributors of human prescription drug products, biological products, and over-the-counter (OTC) drug products that are dispensed pursuant to an order and are commonly used in hospitals are subject to the bar code requirement, regardless of the method they use to distribute their drug products.

Q2: If a distributor merely distributes a product and does nothing to the drug itself, is the distributor subject to the bar code requirements?

A2: No. Under § 201.25, manufacturers, repackers, relabelers, and private label distributors of drug products covered by the bar code rule who are subject to the establishment registration and drug listing requirements in section 510 of the Federal Food, Drug, and Cosmetic Act (the Act) are responsible for placing the appropriate bar code on the product. A distributor who does nothing to the drug itself is not subject to registration and listing requirements and thus is not required to place a bar code on the product. However, any drug that requires a bar code and does not have one is misbranded under section 502 of the Act.

EXEMPTIONS

Q3: Are OTC drugs that are packaged in LDPE (low-density polyethylene) containers and are commonly used in hospitals and dispensed pursuant to an order exempt from the bar code rule?

A3: No. We intend, however, to exercise enforcement discretion by extending to OTC drugs the exemption in § 201.25(b)(1)(i)(F) that applies to prescription drug products in LDPE form fill and seal containers that are not packaged with an overwrap. We responded to a comment on LDPE containers in the preamble to the final rule (response to comment 22, 69 FR 9120 at 9129). Because the comment was presented in the context of prescription drugs, our response addressed prescription drugs. The technical issue (potential leaching), however, affects any drug packaged in this manner. We will also consider amending the regulation to reflect this exemption.

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Q4: Can a firm whose products have a very low rate of medication errors obtain exemptions for those products?

A4: No. A few medication errors for a particular product cannot justify an exemption. As we explained in the preamble to the final rule, if the type of medication error is serious, such as an error that results in death, it would be difficult to justify an exemption on the grounds that few deaths occur. We also have no basis to establish a threshold or baseline number of medication errors that would determine whether a drug should or should not be subject to the bar code requirement. Even if we could establish such a threshold or baseline figure, that figure may not be reliable because health care professionals are not required to submit adverse event reports to us. In other words, the adverse event reporting system can signal the possible existence of a problem, but it cannot reliably predict the frequency with which such problems may occur (response to comment 17, 69 FR 9120 at 9128).

Q5: Can drugs such as suppositories be exempt from the bar code requirements due to their small container size or their container material (including foil wrap)?

A5: Not automatically. The final rule does not provide a blanket exemption for suppositories or small containers. As discussed in the preamble to the final rule, we declined to exclude suppositories from the bar code requirement (response to comment 25, 69 FR 9120 at 9130). Furthermore, we declined to exempt small vials or containers (including suppositories, prefilled syringes, and other small products) and stated that firms may, alternatively, modify the drug's immediate container to accommodate a label bearing a bar code (response to comment 27, 69 FR 9120 at 9131). A firm may apply for an exemption from the bar code requirement under § 201.25(d) if it can document that putting a bar code on its particular suppository product would adversely affect the product's safety, effectiveness, purity, or potency or is otherwise technologically not feasible **and** the problem cannot be solved by a package redesign or overwrap.

Q6: Does the bar code rule require hospitals to affix bar codes on drugs?

A6: No. The rule applies to drug manufacturers, repackers, relabelers, and private label distributors who are subject to the establishment registration requirements under the Act. Hospitals, clinics, and public health agencies that only “maintain establishments in conformance with any applicable laws regulating the practice of pharmacy or medicine and that regularly engage in dispensing prescription drugs . . . upon prescription of practitioners licensed by law to administer these drugs to patients under their professional care” are exempt from the establishment registration requirements (21 CFR 207.10(b)) and, by extension, are exempt from the bar code rule (response to comment 2, 69 FR 9120 at 9123).

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IMPLEMENTATION DATES

Q7: How is the 2-year implementation date intended to work?

A7: The 2-year implementation date is for drug products that received approval before April 26, 2004. This 2-year period is intended to provide the industry sufficient time to make the labeling changes necessary to comply with the rule by April 26, 2006. Drugs approved on or after April 26, 2004, have 60 days from their approval date to comply with the bar code rule.

Q8: Does the product expiration date have any bearing on the bar code requirements?

A8: No. The expiration date of a product has no bearing on the bar code requirements.

Q9: If a drug was approved before the effective date of the final rule, but a supplement is still pending as of the effective date, what date is used to determine when the product needs to meet the bar code requirements?

Should companies use the original new drug application (NDA) or biological license application (BLA) approval date (getting 2 years to comply), or does FDA intend to apply the supplement's approval date (triggering compliance within 60 days)?

A9: The original application approval date is the applicable date for determining when a product would need to meet the bar code requirements. As discussed in the preamble to the final rule, we expect drugs approved before the effective date of this rule to comply with the bar code requirements within 2 years of the effective date, i.e., on or before April 26, 2006. Drugs approved on or after April 26, 2004, the effective date of this rule, must comply within 60 days after the drug's approval date. (See response to comment 71, 69 FR 9120 at 9147.) For circumstances in which a drug is approved before April 26, 2004, and a supplement for a new potency or other change subject to the approval of a supplement is approved after April 26, 2004, the application's original approval date controls; therefore, we would expect the product subject to the supplement to comply with the bar code requirements on or before April 26, 2006.

QUALITY, APPEARANCE, AND PLACEMENT OF THE BAR CODE

Q10: Can a firm use another automatic identification technology, such as a radio frequency identification chip or a two-dimensional symbology, instead of a linear bar code?

A10: No. The final rule requires the use of a linear bar code to encode the NDC number on most prescription drug products and certain OTC drug products. However, we will not object if firms voluntarily encode lot number and expiration date information, and we recognize that some firms might use other technologies to encode that additional information (response to comment 35, 69 FR 9120 at 9134-9135).

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In addition, we stated in the preamble to the final rule that we will consider revising the rule to accommodate new technologies and may begin examining other automatic identification technologies by April 2006 (69 FR 9120 at 9138).

Q11: What should be used in lieu of an asterisk in an NDC?

A11: Nothing should be put in place of the asterisk in an NDC number in a bar code.

Under 21 CFR 207.35(b)(2), the Agency uses the National Drug Code (NDC) numbering system in assigning an NDC number. The number is a 10-character code that uses only numerals.

The NDC number is divided into three segments. The first segment, the labeler code, identifies the manufacturer or distributor and is four or five characters long. The second segment, the product code, identifies the drug product and is three or four characters long. The third segment, the package code, identifies the trade package size and type and is one or two characters long. The 10-character NDC number can be in the following three configurations of labeler code–product code–package code: 4–4–2, 5–4–1, or 5–3–2.

The asterisk is for FDA’s internal use only. For entries into our database, the asterisk is a dummy character used to differentiate between the three different configurations. A zero cannot be used in place of the asterisk because a zero is a real numeric character in an NDC number. An NDC number that contains a non-numeric character (an asterisk) reverts to a 10-numeric character code when used on the labeling of a drug product or included in a bar code. For example, if the NDC number for a firm’s product is in a 5–3–2 configuration, the Agency, potentially, assigns a dummy asterisk as follows: 12345–*542–12. When a bar code is placed on the product, the asterisk is dropped, and the number included in the bar code is 1234554212.

Q12: If a drug product has a bar code on the immediate container and the outer container is an overwrap through which the bar code is human-readable but not machine-readable, does the overwrap also have to contain the bar code if the drug product is administered without the overwrap?

A12: Yes. The Agency intends for bar codes to be on the drug's outside container or wrapper as well as on the immediate container, unless the bar code is readily visible ***and*** machine-readable through the outside container or wrapper (section II.E in the preamble to the final rule, 69 FR 9120 at 9140). When the bar code is not easily machine-readable through the overwrap, the overwrap should contain the bar code. The fact that the overwrap is removed before administration does not change the answer; to prevent medication errors, hospital personnel may need to scan the bar code during the dispensing process before the overwrap is removed.

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Q13: For a product packaged in blister cells divided by perforations that enable the cells to be separated, should there be one bar code for the entire package or does each cell need a bar code?

A13: Assuming that each cell has a label, the bar code should go on each cell because the final rule requires that the bar code be on the drug's label. Furthermore, the bar code must remain intact under normal conditions of use; thus it should not be printed across the perforations of a blister pack (response to comment 43, 69 FR 9120 at 9140).

Q14: Does FDA intend to issue guidance regarding bar code quality, such as size, symbol quality, symbol grade, reflectance?

A14: No. We believe there are sufficient documents and standards issued by third parties to address such bar code quality and standard matters (response to comment 56, 69 FR 9120 at 9144).

MISCELLANEOUS

Q15: Does FDA intend to buy bar code scanning equipment to promote bar code use in hospitals?

A15: No. We have no intention to buy or distribute bar code equipment.